

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/568,471
Source: IFWO
Date Processed by STIC: 2/23/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/568,471

CRF Edit Date: 2/24/06
Edited by: [Signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

J Inserted mandatory headings/numeric identifiers, specifically:

<2207 in sequence 273

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFWO

RAW SEQUENCE LISTING

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:48

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

3 <110> APPLICANT: ABURATANI, Hiroyuki;
 4 HIPPO, Yoshitaka
 5 TANIGUCHI, Hirokazu
 6 CHEN, Yong xin
 7 ISHIKAWA, Shumpei
 8 FUKUMOTO, Shin-ichi
 9 SHIMAMURA, Takahiro
 10 KAMIMURA, Naoko
 11 GUO, Ying qiu
 12 YAMAMOTO, Shogo
 13 ITO, Yukio
 14 ITO, Hirotaka
 15 OHTOMO, Toshihiko

W--> 16 <120> TITLE OF INVENTION: Genes Highly Expressed in Cancers
 W--> 17 <130> FILE REFERENCE: 392.1004
 C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/568,471
 C--> 18 <141> CURRENT FILING DATE: 2006-02-08
 18 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/011650
 19 <151> PRIOR FILING DATE: 2004-08-06
 20 <150> PRIOR APPLICATION NUMBER: JP 2003-290704
 21 <151> PRIOR FILING DATE: 2003-08-08

W--> 22 <160> NUMBER OF SEQ ID: 292
 23 <170> SOFTWARE: PatentIn version 3.1

W--> 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 19341
 26 <212> TYPE: DNA
 27 <213> ORGANISM: homo sapiens

W--> 28 <400> SEQUENCE: 1

29	agtaagaatc agcagcgcg	gcaaggagta cggacgggag	tcagaggcag agcgaggggtg	60
30	tgtggagggc cggcggggac	cgccgggagc gcgcggatgt	cgggtgttcct ggggccaggg	120
31	atgccctctg catctttatt	agtaaattct ctttcagctt	tactcatcct atttgtgttt	180
32	ggagaaacag aaataagatt	tactggacaa actgaatttg	ttgttaatga aacaagtaca	240
33	acagttattc gtcttatcat	tgaaaggata ggagagccag	caaatgttac tgcaattgta	300
34	tcgctgtatg gagaggacgc	tggtgacttt tttgacacat	atgctgcagc ttttatacct	360
35	gccggagaaa caaacagaac	agtgtacata gcagtatgtg	atgatgactt accagggcct	420
36	gacgaaactt ttatttttca	cttaacatta cagaaacctt	cagcaaattgt gaagcttgga	480
37	tggccaagga ctgttactgt	gacaatatta tcaaattgaca	atgcatttgg aattatttca	540
38	tttaatatgc ttccctcaat	cgcagtgagt gagcccaagg	gcagaaatga gtctatgcct	600
39	cttactctca tcagggaaaa	gggaacctat ggaatggtca	tggtgacttt tgaggtagag	660
40	ggtggcccaa atccccctga	tgaagatttg agtccagtta	aaggaaatat cacctttccc	720
41	cctggcagag caacagtaat	ttataacttg gcagtactcg	atgacgaggt accagaaaat	780
42	gatgaaatat ttttaattca	actgaaaagt gtagaaggag	gagctgagat taacacctct	840
43	aggaattcca ttgagatcat	cattgagaaa aatgatagtc	ccgtgagatt ccttcagagt	900

RAW SEQUENCE LISTING

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:48

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

44	atttattttgg	ttcctgagga	agaccacata	ctcataattc	cagtagttcg	tggaaaggac	960
45	aacaatggaa	atctgattgg	atctgatgaa	tatgaggttt	caatcagtta	tgctgtcaca	1020
46	actgggaatt	ccacagcaca	tgcccagcaa	aatctggact	tcattgatct	tcagccaaac	1080
47	acaactgttg	tttttccacc	ttttattcat	gaatctcact	tgaaatttca	aatagttgat	1140
48	gacaccatac	cggagattgc	tgaatcgttt	cacattatgt	tactaaaaga	taccttacag	1200
49	ggagatgctg	tgctaataag	cccttctggt	gtacaagtca	ccattaagcc	aatgatataa	1260
50	ccttatggag	tcctttcatt	caacagtgtt	ttgtttgaaa	ggacagttat	aattgatgaa	1320
51	gatagaatat	caagatatga	agaaatcaca	gtgggttagaa	atggaggaac	ccatgggaat	1380
52	gtctctgcga	attgggtggg	gacaccgaac	agcactgatc	cctcaccagt	aacagcagat	1440
53	atcagaccga	gctctggagt	tcttcatttt	gcacaagggc	agatgttggc	aacaattcct	1500
54	cttactgggg	gtgatgatga	tcttccagaa	gaggcagaag	cttatctact	tcaaattctg	1560
55	cctcatacaa	tacgaggagg	tgccagaagt	agcgagccag	cggagctttt	gttctacatt	1620
56	caggatagt	atgatgtcta	tggcctaata	acattttttc	ctatggaaaa	ccagaagatt	1680
57	gaaagcagcc	caggtggacg	atacttatcc	ttgagtttta	caagactagg	agggaataaa	1740
58	ggagatgtga	ggttgcttta	ttctgtactt	tacttctctg	ctggagctgt	ggacccttg	1800
59	caagcaaaa	aaggcatcct	aaatatatca	aggagaaatg	acctcatttt	tccagagcaa	1860
60	aaaactcaag	tcactacaaa	attaccaata	agaaatgatg	cattccttca	aatggagct	1920
61	cactttctag	tacagttgga	aactgtggag	ttgttaaaca	taattcctct	aatcccaccc	1980
62	ataagcccta	gatttgggga	aatctgcaat	atttctttac	tggttactcc	agccattgca	2040
63	aatggagaaa	ttggctttct	cagcaatcct	ccaattatct	tgcatagaac	agaagatttt	2100
64	gctgctgaag	tggatatacat	tcccttacat	cgggatggaa	ctgatggcca	ggctactgtc	2160
65	tactggagtt	tgaagccctc	tggctttaat	tcaaaagcag	tgaccccgga	tgatataggc	2220
66	ccctttaatg	gctctgtttt	gtttttatct	gggcaaagt	acacaacaat	caacattact	2280
67	atcaaagggt	atgacatacc	ggaaatgaat	gaaactgtaa	cactttctct	agactgggtt	2340
68	aacgtggaaa	accaagtgtc	gaaatctgga	tatactagcc	gtgacctaat	tattttggaa	2400
69	aatgatgacc	ctggggggagt	ttttgaattt	tctcctgctt	ccagaggacc	ctatgttata	2460
70	aaagaaggag	aatctgtaga	gtccacatc	atccgatcaa	gggggtccct	tgtaagcag	2520
71	tttctacact	accgagtaga	gccaaagagat	agcaatgaat	tctatggaaa	cacgggagta	2580
72	ctagaattta	aacctggaga	aaggagagata	gtgatcacct	tgctagcaag	attggatggg	2640
73	ataccagagt	tggatgaaca	ctactgggtg	gtcctcagca	gccacggaga	acgggaaagc	2700
74	aagttgggaa	gtgccaccat	tgtcaatata	acgattctga	aaaatgatga	tcctcatggc	2760
75	attatagaat	ttgtttctga	tggcttaatt	gtgatgataa	atgaaagcaa	aggagatgct	2820
76	atctatagt	ctgtttatga	tgtagtgaag	aatcgaggca	actttgggtga	tgtagtgta	2880
77	tcatgggtgg	ttagtccaga	ctttacacaa	gatgtatttc	ctgtacaagg	gactgttgtc	2940
78	tttggagatc	aggaattttc	aaaaaatatc	accatttact	cccttccaga	tgagattcca	3000
79	gaagaaatgg	aagaattttac	cgttatccta	ctgaatggca	ctggaggagc	taaagtggga	3060
80	aatagaacaa	ctgcaactct	gaggattaga	agaaatgatg	acccatttta	ttttgcagaa	3120
81	cctcgtgtag	tgagggttca	agaaggggag	actgccaaact	ttacagttct	cagaaatgga	3180
82	tctgttgatg	tgacttgcat	ggtccagtat	gctaccaagg	atgggaaggc	tactgcaaga	3240
83	gagagagatt	tcattcctgt	tgaaaaagga	gaaacgctca	tttttgaggt	tgggaagtaga	3300
84	cagcagagca	tatccatatt	tgtaaatgaa	gatgggtatcc	cggaaacaga	tgagcccttt	3360
85	tatataatcc	tcttgaattc	accaggtgat	ccagtagtat	atcaatatgg	agtagctaca	3420
86	gtaataattg	aagctaattga	tgacccaaat	ggcatttttt	ctctggagcc	catagacaaa	3480
87	gcagtggaa	aaggaaagac	taatgcattt	tggattttga	ggcaccgagg	atactttggg	3540
88	agtgtttctg	tatcttggca	gctctttcag	aatgattctg	ctttgcagcc	tgggcaggag	3600
89	ttctatgaaa	cttcagggaac	tgtaacttcc	atggatggag	agaagcaaaa	accaatcatt	3660
90	ctccatgctt	ttccagataa	aattcctgaa	ttcaatgaat	tttatttccct	aaaacttgta	3720
91	aacatttcag	gtggatcccc	aggtcctggg	ggccagctag	cagaaaccaa	cctccaggtg	3780
92	acagtaatgg	ctccattcaa	tgatgatccc	tttggagttt	ttatcttgga	tccagagtgt	3840

RAW SEQUENCE LISTING

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:48

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

```

93 ttagagagag aagtggcaga agatgtcctg tctgaagatg atatgtctta tattaccaac 3900
94 ttcaccattt tgaggcagca ggggtgtgtt ggtgatgtac aactgggctg ggaaatactg 3960
95 tccagtgagt tccctgctgg tctgccacca atgatagatt ttttactggg tggaaattttc 4020
96 cccaccaccg tgcatttaca acagcacatg cgggggtcacc acagtggaaac ggatgctttg 4080
97 tactttaccg gactagaagg tgcatttggt actggtaatt caaaatacca tcccttcagg 4140
98 aataatacaa ttgccactt tacattttca gcttgggtaa tgcccaatgc caatacgaat 4200
99 ggattcatta tagcgaagga tgacggtaat ggaagcatct actacggggg aaaaatacaa 4260
100 acaaacgaat cccatgtgac actttccctt cattataaaa ccttggggtt caatgctaca 4320
101 tacattgcca agacaacagt catgaaatat ttagaagaaa gtgtttggct tcatctacta 4380
102 attatcctgg aggatggtat aatcgaattc tacctggatg gaaatgcaat gccagggga 4440
103 atcaagagtc tgaaaggaga agccattact gacggtcctg ggatactgag aattggagca 4500
104 gggataaatg gcaatgacag atttacaggt ctgatgcagg atgtgaggtc ctatgagcgg 4560
105 aaactgacgc ttgaagaaat ttatgaactt catgccatgc ccgcaaaaag tgatttacac 4620
106 ccaatttctg gatattctga gttcagacag ggagaaacta acaaatcatt cattatttct 4680
107 gcaagagatg acaatgacga ggaaggagaa gaattattca ttcttaact agtttctgta 4740
108 tatggaggag ctctgtattt ggaagaaaat actactgcaa gattaacaat acaaaaaagt 4800
109 gacaatgcaa atggcttgtt tggtttcaca ggagcttgta taccagagat tgcagaggag 4860
110 ggatcaacca tttcttgtgt ggttgagaga accagaggag ctctggatta tgtgcatgtt 4920
111 ttttacacca tttcacagat tgaaactgat ggcattaatt acctgttga tgactttgct 4980
112 aatgccagtg gaactattac attccttctt tggcagagat cagaggttct gaatatatat 5040
113 gttcttgatg atgatattcc tgaacttaat gagtatitcc gtgtgacatt ggtttctgca 5100
114 attcctggag atgggaagct aggtcaact cctaccagtg gtgcaagcat agatcctgaa 5160
115 aaggaaacga ctgatatcac catcaaagct agtgatcatc catatggctt gctgcagttc 5220
116 tccacagggc tgccctctca gcctaaggac gcaatgaccc tgccctgcaag cagcgttcca 5280
117 catatcactg tggaggagga agatggagaa atcaggttat tggatcatccg tgcacagggga 5340
118 cttctgggaa ggggtgactgc ggaatttaga acagtgtcct tgacagcatt cagtcctgag 5400
119 gattaccaga atgttgctgg cacattagaa tttcaaccag gagaaagata taaatacatt 5460
120 ttcataaaca tcaatgataa ttctattcct gaactggaaa aatcttttaa agttgagttg 5520
121 ttaaacttgg aaggaggagt agctgaactc tttagggttg atggaagtgg tagtggtgat 5580
122 ggggacatgg aattcttctt tccaactatt cacaaacgtg ccagtctagg agtggcttcc 5640
123 caaatctag tgacaattgc agcctctgac cagctcatg gcgtatttga atttagcctc 5700
124 gagtcactct ttgtcagtgg aactgaacca gaagatgggt atagcactgt tacattaaat 5760
125 gttataagac atcatggaac tctgtctcca gtgactttgc attggaacat agactctgat 5820
126 cctgatgggt atctgcctt cacctctggc aacatcacat ttgagattgg gcagacgagc 5880
127 gccaatatca ctgtggagat attgctgac gaagaccag aactggataa ggcatttctt 5940
128 gtgtcagtc tcaagtgttc cagtggttct ttgggagctc atattaatgc caggttaaca 6000
129 gttttggcta gtgatgatcc atatgggata ttcatttttt ctgagaaaaa cagacctgtt 6060
130 aaagttgagg aagcaaccca gaacatcaca ctatcaataa taaggttgaa aggcctcatg 6120
131 ggaaaagtcc ttgtctcata tgcaacacta gatgatatgg aaaaaccacc ttattttcca 6180
132 cctaatttag cgagagcaac tcaaggaaga gactatatac cagcttctgg atttgctctt 6240
133 tttggagcta atcagagtga ggcaacaata gctattttcaa ttttggatga tgatgagcca 6300
134 gaaaggtccg aatctgtctt tatcgaacta ctcaactcta cttagtagc gaaagtacag 6360
135 agtcgttcaa ttccaaattc tccacgtctt gggcctaagg tagaaactat tgcgcaacta 6420
136 attatcattg ccaatgatga tgcatttgga actcttcagc tctcagcacc aattgtccga 6480
137 gtggcagaaa atcatgttg acccattatc aatgtgacta gaacaggagg agcatttgca 6540
138 gatgtctctg tgaagtttaa agctgtgcca ataacagcaa tagctggtga agattatagt 6600
139 atagcttcat cagatgtggt cttgctagaa ggggaaacca gttaaagcgt gccaatatat 6660
140 gtcattaatg atatctatcc tgaactggaa gaatcttttc ttgtgcaact gatgaatgaa 6720
141 acaacaggag gagccagact aggggcttta acagaggcag tcattattat tgaggcctct 6780

```

RAW SEQUENCE LISTING

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:48

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

142	gatgaccct	atggattatt	tggttttcag	attactaaac	ttattgtaga	ggaacctgag	6840
143	tttaactcag	tgaaggtaaa	cctgccata	attcgaaatt	ctgggacact	cggcaatggt	6900
144	accgttcagt	gggttgccac	cattaatgga	cagcttgcta	ctggcgacct	gcgagttgtc	6960
145	tcaggtaatg	tgacctttgc	ccctggggaa	accattcaaa	ccttggtgtt	agaggctctg	7020
146	gctgacgacg	ttccggagat	tgaagagggt	atccaagtgc	aactaactga	tgacctgtgt	7080
147	ggaggtagta	ttgggttaga	tcgaattgca	aatattatta	ttcctgccaa	tgatgatcct	7140
148	tatggtacag	tagcctttgc	tcagatgggt	tatcgtgttc	aagagcctct	ggaaagaagt	7200
149	tcctgtgcta	atataactgt	caggcgagac	ggagggcact	ttggtcggct	gttggtgttc	7260
150	tacagtactt	ccgacattga	tgtagtggct	ctggcaatgg	aggaagggtca	agatttactg	7320
151	tcctactatg	aatctccaat	tcaaggggtg	cctgacccac	tttggaagac	ttggatgaat	7380
152	gtctctgccg	tgggggagcc	cctgtatacc	tgtgccactt	tgtgccttaa	ggaacaagct	7440
153	tgctcagcgt	tttcatTTTT	cagtgtctct	gagggtcccc	agtgtttctg	gatgacatca	7500
154	tggatcagcc	cagctgtcaa	caattcagac	ttttggacct	acaggaaaaa	catgaccagg	7560
155	gtagcatctc	tttttagtgg	tcaggctgtg	gctgggagtg	actatgagcc	tgtgacaagg	7620
156	caatgggcca	taatgcagga	aggatgatgaa	ttcgcaaatc	tcacagtgtc	tattcttctc	7680
157	gatgatttcc	cagagatgga	tgagagtttt	ctaatttctc	tccttgaaag	tcacctcatg	7740
158	aacatttcag	ccagtttgaa	aaatcagcca	accataggac	agccaaatat	ttctacagtt	7800
159	gtcatagcac	taaatggtga	tgcttttgga	gtgtttgtga	tctacaatat	tagtcccaat	7860
160	acttccgaag	atggcttatt	tgttgaaagt	caggagcagc	cccaaaccct	ggtggagctg	7920
161	atgatacaca	ggacaggggg	cagcttaggt	caagtggcag	tcgaatggcg	tgttggttgt	7980
162	ggaacagcta	ctgaagggtt	agattttata	ggtgctggag	agattttgac	ctttgctgaa	8040
163	ggtgaaacca	aaaagacagt	cattttaacc	atcttgatg	actctgaacc	agaggatgac	8100
164	gaaagtatca	tagttagtgt	ggtgtacact	gaaggtggaa	gtagaatttt	gccaaagctcc	8160
165	gacactgtta	gagtgaacat	tttgcccaat	gacaatgtgg	caggaattgt	tagctttcag	8220
166	acagcttcca	gatctgtcat	aggatcatgaa	ggagaaattt	tacaattcca	tgtgataaga	8280
167	actttccctg	gtcgaggaaa	tgttactgtt	aactggaaaa	ttattgggca	aaatctagaa	8340
168	ctcaattttg	ctaactttag	cggacaactt	ttctttcctg	aggggtcgtt	gaatacaaca	8400
169	ttgtttgtgc	atttgttgga	tgacaacatt	cctgaggaga	aagaagtata	ccaagtcat	8460
170	ctgtatgatg	tcaggacaca	aggagttcca	ccagccggaa	tcgccctgct	tgatgctcaa	8520
171	ggatatgcag	ctgtcctcac	agtagaagcc	agtgatgaac	cacatggagt	tttaaatTTT	8580
172	gctctttcat	caagatttgt	gttactacaa	gaggctaaca	taacaattca	gcttttcatc	8640
173	aacagagaat	ttggatctct	aggagctatc	aatgtcacat	ataccacggg	tcctggaatg	8700
174	ctgagttctga	agaaccaaac	agtaggaaac	ctagcagagc	cagaagttga	ttttgtccct	8760
175	atcatttggt	ttctgatttt	agaagaaggg	gaaacagcag	cagccatcaa	cattaccatt	8820
176	cttgaggatg	atgtaccaga	gctagaagaa	tatttctctg	tgaatttaac	ttacgtggga	8880
177	cttaccatgg	ctgcttcaac	ttcatttctc	cccagactag	attcagaagg	tttgactgca	8940
178	caagttatta	ttgatgccaa	tgatggggcc	cagagtgtaa	ttgaatggca	acaagcagg	9000
179	tttgaagtaa	atgaaaccca	tgggaagttt	acattggtag	cccagaggag	cagagaacct	9060
180	cttgggccatg	tttctttatt	tgtgtatgct	cagaatttgg	aagcacaagt	ggggctggat	9120
181	tatatcttca	ccccaatgat	tcttcatttt	gctgatggag	aaaggtataa	aatgtcaat	9180
182	atcatgattc	ttgatgatga	cattccagaa	ggagatgaaa	aatttcagct	gatttttaaca	9240
183	aatccttctc	ctggactaga	gctagggaaa	aatacaatat	ccttaattat	tgctcttgct	9300
184	aatgatgacg	gccctggagt	tctatcattt	aacaacagtg	agcacttttt	cctaagagag	9360
185	ccaacagctc	tctacgtcca	ggagagtgtt	gcagtattgt	acattgttcg	ggaacctgca	9420
186	caaggattgt	ttggaacagt	gacagttcag	ttcattgtga	cagaagtga	ttcctcaaat	9480
187	gaatctaaag	atctgactcc	ttccaaaggc	tatattgttt	tagaagaagg	tgttcgattc	9540
188	aaggccctac	aaatatctgc	catattagac	acggaaccag	aatggatga	gtattttgtt	9600
189	tgacacttgt	ttaatccaac	tggaggtgct	agactagggg	tgcatgttca	aacctgata	9660
190	acagttttgc	aaaaccaggc	ccctttgggg	ctattcagta	tctctgcagt	tgaaaataga	9720

RAW SEQUENCE LISTING

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:48

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

191	gccacctcca	tagacatcga	agaagccaat	aggaccgtgt	atttaaagt	atctcgaact	9780
192	aatgacattg	atttggtgt	gagtgtgcag	tgggagacag	tatctgaaac	agcctttggc	9840
193	atgaggggaa	tggatgttgt	gttttccgta	tttcaaagtt	ttttggatga	atcagcttct	9900
194	ggctgggtgt	tctttacttt	ggaaaattta	atatatggta	taatgttaag	aaaatcatct	9960
195	gttactgttt	accgatggca	ggggattttt	attccagttg	aggattttaa	tatagaaaat	10020
196	cctaaaactt	gtgaggcctt	taatatgtgt	ttttctccct	actttgtgat	tactcatgaa	10080
197	gaaagaaatg	aagaaaagcc	ttctcttaac	agtgtgttta	cattcacatc	tggattttaa	10140
198	ttattcctgg	tacaaacaat	cattattctg	gaaagtcttc	aagtaagata	ttttacttca	10200
199	gacagccaag	attatttaat	cattgcaagt	caaagagatg	attccgaatt	aactcagggtc	10260
200	ttcagggtgga	atggaggaag	cttcgtgttg	catcaaaaac	tccctgtccg	aggtgtgctg	10320
201	accgtggcct	tgttcaacaa	gggaggctct	gtgttcttag	ccatttccca	ggctaagcc	10380
202	aggctaaact	cccttttatt	cagatggtct	ggcagtgggt	ttattaactt	tcaagagggtg	10440
203	cctgtcagtg	ggacaacaga	agttgaggct	ttgtcttcag	ccaatgatat	ttacctata	10500
204	tttgccgaaa	atgtctttct	aggagatcag	aattcaattg	atattttcat	ctgggagatg	10560
205	ggacagtctt	ccttcaggta	ttttcagttt	gtagattttg	ctgctgttaa	cagaatccac	10620
206	tccttcacac	cagcctcagg	aatagcccac	atacttctta	ttgggccaaag	atatgtctac	10680
207	tcttttactg	ctggaaattc	ggagcgtaat	caattctctt	ttgttctgga	agtaccttct	10740
208	gcttatgatg	tgggtttctgt	tacagtaaag	tcccttaatt	caagcaagaa	tttaatatgct	10800
209	ctagtgggag	ctcattcaca	tatatatgag	ctagcctaca	tttccagcca	ttctgacttt	10860
210	attcctagtt	cagggtgaact	gatatttgaa	cctggtgaga	gagaagctac	aatagcagta	10920
211	aatatccttg	atgatacagt	tccagaaaaa	gaagaatcct	tcaaagttca	acttaaaaat	10980
212	cccaaaggag	gagcagagat	tggcattaat	gattctgtaa	caataaccat	tctgtctaata	11040
213	gatgatgcct	atggaattgt	tgcatttgct	cagaattcat	tatataagca	agtggaagaa	11100
214	atggagcaag	atagcctagt	aaccttgaac	gttgaacgct	taaaaggaac	atatggccgt	11160
215	ataaccatag	catgggaagc	tgatggaagt	attagtgata	tatttcctac	ctcaggagtg	11220
216	attttatttta	ctgaaggcca	ggtactgtca	acaatcactc	taactattct	tgctgataat	11280
217	ataccagagt	tatcagagggt	tgtgattgta	accctcacc	gtatcaccac	agaaggggtt	11340
218	gaggactcat	acaaagggtgc	tactattgat	caggacagaa	gcaagtctgt	tataacaact	11400
219	ttgcccattg	actcaccttt	tggcttggtg	ggctggcgtg	ctgctctgt	cttcattaga	11460
220	gtagcagagc	ctaaagaaaa	caccaccact	cttcagttac	aaatagctcg	agataaagga	11520
221	ctacttgggg	atattgccat	tcacttgaga	gtcacaacca	atttcttact	gcatgtcgat	11580
222	aatcaagcta	ctgagaatga	agattatgta	ttgcaagaaa	caataataat	aatgaaagaa	11640
223	aacataaaag	aagctcatgc	cgaagtcttc	attttgccgg	atgaccttc	tgaattggag	11700
224	gaaggatttta	ttgtcactat	cactgagggtg	aacctgggtga	actctgactt	ctctacagga	11760
225	cagccaagtg	tgcggaggcc	cgggaatggaa	atagctgaga	taatgataga	agaaaatgac	11820
226	gatcccagag	gaatttttat	gtttcatgtt	actagaggcg	ctggggaagt	tattactgcc	11880
227	tatgagggtgc	ctccaccctt	gaacgttctt	caagttcctg	tagtccggct	ggctggaagc	11940
228	tttggggcag	taaatgttta	ttggaaagca	tcaccagaca	gtgctggcct	ggaagacttt	12000
229	aaaccatctc	atgggattct	tgaatttgca	gataaacagg	ttactgcaat	gatagaaatc	12060
230	accataattg	atgatgctga	atttgaattg	acagagacgt	tcaatatttc	cttgatcagt	12120
231	gttgctggag	gtggcagact	tgggtgatgat	gttgtggtaa	ctgttggtat	tccacaaaat	12180
232	gattctccat	ttggagtatt	tggatttgaa	gaaaagactg	taatgattga	tgaatccctt	12240
233	tcatccgatg	accctgattc	atatgtgaca	ttgacgggtg	tccgggtccc	aggaggaaaa	12300
234	ggaaccgtcc	gacttgagtg	gaccatagat	gagaaggcta	aacataacct	tagtcctttg	12360
235	aatgggaccc	ttcattttga	tgagactgag	tcccagaaga	ccattgtgtt	gcacacactt	12420
236	caagacacag	tgttggagga	ggacaggcgt	ttcaccattc	agctgatatc	aattgatgag	12480
237	gtagaaatat	ctccagtaaa	aggtagtgca	tcaataatta	ttcgggggtga	taagcgagca	12540
238	tcaggagaag	ttgggatagc	tccgtcatct	aggcacatcc	tcattgggga	accctcagca	12600
239	aaatataatg	gtaccgctat	tatcagcctt	gttcgaggcc	cagggtttt	gggggagggtc	12660

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/24/2006
PATENT APPLICATION: US/10/568,471 TIME: 16:50:49

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\02242006\J568471.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 435,652

Seq#:16; N Pos. 1,3,5,416,424,463,474

VERIFICATION SUMMARY

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

L:16 M:283 W: Missing Blank Line separator, <120> field identifier
L:17 M:283 W: Missing Blank Line separator, <130> field identifier
L:18 M:270 C: Current Application Number differs, Replaced Current Application No
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:22 M:283 W: Missing Blank Line separator, <160> field identifier
L:24 M:283 W: Missing Blank Line separator, <210> field identifier
L:28 M:283 W: Missing Blank Line separator, <400> field identifier
L:356 M:283 W: Missing Blank Line separator, <400> field identifier
L:394 M:283 W: Missing Blank Line separator, <400> field identifier
L:415 M:283 W: Missing Blank Line separator, <400> field identifier
L:428 M:283 W: Missing Blank Line separator, <220> field identifier
L:432 M:283 W: Missing Blank Line separator, <220> field identifier
L:436 M:283 W: Missing Blank Line separator, <400> field identifier
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:420
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:600
L:453 M:283 W: Missing Blank Line separator, <400> field identifier
L:465 M:283 W: Missing Blank Line separator, <400> field identifier
L:498 M:283 W: Missing Blank Line separator, <400> field identifier
L:563 M:283 W: Missing Blank Line separator, <400> field identifier
L:612 M:283 W: Missing Blank Line separator, <400> field identifier
L:627 M:283 W: Missing Blank Line separator, <400> field identifier
L:661 M:283 W: Missing Blank Line separator, <400> field identifier
L:689 M:283 W: Missing Blank Line separator, <400> field identifier
L:704 M:283 W: Missing Blank Line separator, <400> field identifier
L:740 M:283 W: Missing Blank Line separator, <400> field identifier
L:802 M:283 W: Missing Blank Line separator, <220> field identifier
L:806 M:283 W: Missing Blank Line separator, <220> field identifier
L:810 M:283 W: Missing Blank Line separator, <220> field identifier
L:814 M:283 W: Missing Blank Line separator, <220> field identifier
L:818 M:283 W: Missing Blank Line separator, <220> field identifier
L:822 M:283 W: Missing Blank Line separator, <220> field identifier
L:826 M:283 W: Missing Blank Line separator, <220> field identifier
L:830 M:283 W: Missing Blank Line separator, <400> field identifier
L:831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:360
L:838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:420
L:843 M:283 W: Missing Blank Line separator, <400> field identifier
L:1022 M:283 W: Missing Blank Line separator, <400> field identifier
L:1060 M:283 W: Missing Blank Line separator, <400> field identifier
L:1093 M:283 W: Missing Blank Line separator, <400> field identifier
L:1144 M:283 W: Missing Blank Line separator, <400> field identifier
L:1201 M:283 W: Missing Blank Line separator, <400> field identifier
L:1235 M:283 W: Missing Blank Line separator, <400> field identifier
L:1250 M:283 W: Missing Blank Line separator, <400> field identifier
L:1303 M:283 W: Missing Blank Line separator, <400> field identifier
L:1372 M:283 W: Missing Blank Line separator, <400> field identifier
L:1456 M:283 W: Missing Blank Line separator, <400> field identifier
L:1492 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

L:1540 M:283 W: Missing Blank Line separator, <400> field identifier
L:1591 M:283 W: Missing Blank Line separator, <400> field identifier
L:1613 M:283 W: Missing Blank Line separator, <400> field identifier
L:1697 M:283 W: Missing Blank Line separator, <400> field identifier
L:1774 M:283 W: Missing Blank Line separator, <400> field identifier
L:1823 M:283 W: Missing Blank Line separator, <400> field identifier
L:1842 M:283 W: Missing Blank Line separator, <400> field identifier
L:1882 M:283 W: Missing Blank Line separator, <400> field identifier
L:1913 M:283 W: Missing Blank Line separator, <400> field identifier
L:1931 M:283 W: Missing Blank Line separator, <400> field identifier
L:2007 M:283 W: Missing Blank Line separator, <400> field identifier
L:2118 M:283 W: Missing Blank Line separator, <400> field identifier
L:2183 M:283 W: Missing Blank Line separator, <400> field identifier
L:2230 M:283 W: Missing Blank Line separator, <400> field identifier
L:2295 M:283 W: Missing Blank Line separator, <400> field identifier
L:2339 M:283 W: Missing Blank Line separator, <400> field identifier
L:2469 M:283 W: Missing Blank Line separator, <400> field identifier
L:2506 M:283 W: Missing Blank Line separator, <400> field identifier
L:2525 M:283 W: Missing Blank Line separator, <400> field identifier
L:2549 M:283 W: Missing Blank Line separator, <400> field identifier
L:2572 M:283 W: Missing Blank Line separator, <400> field identifier
L:2610 M:283 W: Missing Blank Line separator, <400> field identifier
L:2645 M:283 W: Missing Blank Line separator, <400> field identifier
L:2704 M:283 W: Missing Blank Line separator, <400> field identifier
L:2756 M:283 W: Missing Blank Line separator, <400> field identifier
L:2783 M:283 W: Missing Blank Line separator, <400> field identifier
L:2817 M:283 W: Missing Blank Line separator, <400> field identifier
L:2869 M:283 W: Missing Blank Line separator, <400> field identifier
L:2905 M:283 W: Missing Blank Line separator, <400> field identifier
L:2919 M:283 W: Missing Blank Line separator, <400> field identifier
L:2974 M:283 W: Missing Blank Line separator, <400> field identifier
L:3086 M:283 W: Missing Blank Line separator, <400> field identifier
L:3105 M:283 W: Missing Blank Line separator, <400> field identifier
L:3139 M:283 W: Missing Blank Line separator, <400> field identifier
L:3183 M:283 W: Missing Blank Line separator, <400> field identifier
L:3265 M:283 W: Missing Blank Line separator, <400> field identifier
L:3363 M:283 W: Missing Blank Line separator, <400> field identifier
L:3460 M:283 W: Missing Blank Line separator, <400> field identifier
L:3491 M:283 W: Missing Blank Line separator, <400> field identifier
L:3522 M:283 W: Missing Blank Line separator, <400> field identifier
L:3573 M:283 W: Missing Blank Line separator, <400> field identifier
L:3624 M:283 W: Missing Blank Line separator, <400> field identifier
L:3647 M:283 W: Missing Blank Line separator, <400> field identifier
L:3706 M:283 W: Missing Blank Line separator, <400> field identifier
L:3821 M:283 W: Missing Blank Line separator, <400> field identifier
L:4282 M:283 W: Missing Blank Line separator, <400> field identifier
L:4337 M:283 W: Missing Blank Line separator, <400> field identifier
L:4408 M:283 W: Missing Blank Line separator, <400> field identifier
L:4453 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

L:5292 M:283 W: Missing Blank Line separator, <400> field identifier
L:5357 M:283 W: Missing Blank Line separator, <400> field identifier
L:5420 M:283 W: Missing Blank Line separator, <400> field identifier
L:5535 M:283 W: Missing Blank Line separator, <400> field identifier
L:5572 M:283 W: Missing Blank Line separator, <400> field identifier
L:5605 M:283 W: Missing Blank Line separator, <400> field identifier
L:5660 M:283 W: Missing Blank Line separator, <400> field identifier
L:5779 M:283 W: Missing Blank Line separator, <400> field identifier
L:5908 M:283 W: Missing Blank Line separator, <400> field identifier
L:6037 M:283 W: Missing Blank Line separator, <400> field identifier
L:6098 M:283 W: Missing Blank Line separator, <400> field identifier
L:6161 M:283 W: Missing Blank Line separator, <400> field identifier
L:6266 M:283 W: Missing Blank Line separator, <400> field identifier
L:6301 M:283 W: Missing Blank Line separator, <400> field identifier
L:6392 M:283 W: Missing Blank Line separator, <400> field identifier
L:6493 M:283 W: Missing Blank Line separator, <400> field identifier
L:6586 M:283 W: Missing Blank Line separator, <400> field identifier
L:6605 M:283 W: Missing Blank Line separator, <400> field identifier
L:6664 M:283 W: Missing Blank Line separator, <400> field identifier
L:6723 M:283 W: Missing Blank Line separator, <400> field identifier
L:6750 M:283 W: Missing Blank Line separator, <400> field identifier
L:6867 M:283 W: Missing Blank Line separator, <400> field identifier
L:6910 M:283 W: Missing Blank Line separator, <400> field identifier
L:7037 M:283 W: Missing Blank Line separator, <400> field identifier
L:7084 M:283 W: Missing Blank Line separator, <400> field identifier
L:7213 M:283 W: Missing Blank Line separator, <400> field identifier
L:7256 M:283 W: Missing Blank Line separator, <400> field identifier
L:7469 M:283 W: Missing Blank Line separator, <400> field identifier
L:7546 M:283 W: Missing Blank Line separator, <400> field identifier
L:7569 M:283 W: Missing Blank Line separator, <400> field identifier
L:7606 M:283 W: Missing Blank Line separator, <400> field identifier
L:7631 M:283 W: Missing Blank Line separator, <400> field identifier
L:7712 M:283 W: Missing Blank Line separator, <400> field identifier
L:7751 M:283 W: Missing Blank Line separator, <400> field identifier
L:7860 M:283 W: Missing Blank Line separator, <400> field identifier
L:7981 M:283 W: Missing Blank Line separator, <400> field identifier
L:8014 M:283 W: Missing Blank Line separator, <400> field identifier
L:8047 M:283 W: Missing Blank Line separator, <400> field identifier
L:8096 M:283 W: Missing Blank Line separator, <400> field identifier
L:8171 M:283 W: Missing Blank Line separator, <400> field identifier
L:8190 M:283 W: Missing Blank Line separator, <400> field identifier
L:8287 M:283 W: Missing Blank Line separator, <400> field identifier
L:8334 M:283 W: Missing Blank Line separator, <400> field identifier
L:8361 M:283 W: Missing Blank Line separator, <400> field identifier
L:8374 M:283 W: Missing Blank Line separator, <400> field identifier
L:8427 M:283 W: Missing Blank Line separator, <400> field identifier
L:8560 M:283 W: Missing Blank Line separator, <400> field identifier
L:8566 M:283 W: Missing Blank Line separator, <400> field identifier
L:8572 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

L:8578 M:283 W: Missing Blank Line separator, <400> field identifier
L:8584 M:283 W: Missing Blank Line separator, <400> field identifier
L:8590 M:283 W: Missing Blank Line separator, <400> field identifier
L:8596 M:283 W: Missing Blank Line separator, <400> field identifier
L:8602 M:283 W: Missing Blank Line separator, <400> field identifier
L:8608 M:283 W: Missing Blank Line separator, <400> field identifier
L:8614 M:283 W: Missing Blank Line separator, <400> field identifier
L:8620 M:283 W: Missing Blank Line separator, <400> field identifier
L:8626 M:283 W: Missing Blank Line separator, <400> field identifier
L:8632 M:283 W: Missing Blank Line separator, <400> field identifier
L:8638 M:283 W: Missing Blank Line separator, <400> field identifier
L:8644 M:283 W: Missing Blank Line separator, <400> field identifier
L:8650 M:283 W: Missing Blank Line separator, <400> field identifier
L:8656 M:283 W: Missing Blank Line separator, <400> field identifier
L:8662 M:283 W: Missing Blank Line separator, <400> field identifier
L:8668 M:283 W: Missing Blank Line separator, <400> field identifier
L:8674 M:283 W: Missing Blank Line separator, <400> field identifier
L:8680 M:283 W: Missing Blank Line separator, <400> field identifier
L:8686 M:283 W: Missing Blank Line separator, <400> field identifier
L:8692 M:283 W: Missing Blank Line separator, <400> field identifier
L:8698 M:283 W: Missing Blank Line separator, <400> field identifier
L:8704 M:283 W: Missing Blank Line separator, <400> field identifier
L:8710 M:283 W: Missing Blank Line separator, <400> field identifier
L:8716 M:283 W: Missing Blank Line separator, <400> field identifier
L:8722 M:283 W: Missing Blank Line separator, <400> field identifier
L:8728 M:283 W: Missing Blank Line separator, <400> field identifier
L:8734 M:283 W: Missing Blank Line separator, <400> field identifier
L:8740 M:283 W: Missing Blank Line separator, <400> field identifier
L:8746 M:283 W: Missing Blank Line separator, <400> field identifier
L:8752 M:283 W: Missing Blank Line separator, <400> field identifier
L:8758 M:283 W: Missing Blank Line separator, <400> field identifier
L:8764 M:283 W: Missing Blank Line separator, <400> field identifier
L:8770 M:283 W: Missing Blank Line separator, <400> field identifier
L:8776 M:283 W: Missing Blank Line separator, <400> field identifier
L:8782 M:283 W: Missing Blank Line separator, <400> field identifier
L:8788 M:283 W: Missing Blank Line separator, <400> field identifier
L:8794 M:283 W: Missing Blank Line separator, <400> field identifier
L:8800 M:283 W: Missing Blank Line separator, <400> field identifier
L:8806 M:283 W: Missing Blank Line separator, <400> field identifier
L:8812 M:283 W: Missing Blank Line separator, <400> field identifier
L:8818 M:283 W: Missing Blank Line separator, <400> field identifier
L:8824 M:283 W: Missing Blank Line separator, <400> field identifier
L:8830 M:283 W: Missing Blank Line separator, <400> field identifier
L:8836 M:283 W: Missing Blank Line separator, <400> field identifier
L:8842 M:283 W: Missing Blank Line separator, <400> field identifier
L:8848 M:283 W: Missing Blank Line separator, <400> field identifier
L:8854 M:283 W: Missing Blank Line separator, <400> field identifier
L:8860 M:283 W: Missing Blank Line separator, <400> field identifier
L:8866 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

L:8872 M:283 W: Missing Blank Line separator, <400> field identifier
L:8878 M:283 W: Missing Blank Line separator, <400> field identifier
L:8884 M:283 W: Missing Blank Line separator, <400> field identifier
L:8890 M:283 W: Missing Blank Line separator, <400> field identifier
L:8896 M:283 W: Missing Blank Line separator, <400> field identifier
L:8902 M:283 W: Missing Blank Line separator, <400> field identifier
L:8908 M:283 W: Missing Blank Line separator, <400> field identifier
L:8914 M:283 W: Missing Blank Line separator, <400> field identifier
L:8920 M:283 W: Missing Blank Line separator, <400> field identifier
L:8926 M:283 W: Missing Blank Line separator, <400> field identifier
L:8932 M:283 W: Missing Blank Line separator, <400> field identifier
L:8938 M:283 W: Missing Blank Line separator, <400> field identifier
L:8944 M:283 W: Missing Blank Line separator, <400> field identifier
L:8950 M:283 W: Missing Blank Line separator, <400> field identifier
L:8956 M:283 W: Missing Blank Line separator, <400> field identifier
L:8962 M:283 W: Missing Blank Line separator, <400> field identifier
L:8968 M:283 W: Missing Blank Line separator, <400> field identifier
L:8974 M:283 W: Missing Blank Line separator, <400> field identifier
L:8980 M:283 W: Missing Blank Line separator, <400> field identifier
L:8986 M:283 W: Missing Blank Line separator, <400> field identifier
L:8992 M:283 W: Missing Blank Line separator, <400> field identifier
L:8998 M:283 W: Missing Blank Line separator, <400> field identifier
L:9004 M:283 W: Missing Blank Line separator, <400> field identifier
L:9010 M:283 W: Missing Blank Line separator, <400> field identifier
L:9016 M:283 W: Missing Blank Line separator, <400> field identifier
L:9022 M:283 W: Missing Blank Line separator, <400> field identifier
L:9028 M:283 W: Missing Blank Line separator, <400> field identifier
L:9034 M:283 W: Missing Blank Line separator, <400> field identifier
L:9040 M:283 W: Missing Blank Line separator, <400> field identifier
L:9046 M:283 W: Missing Blank Line separator, <400> field identifier
L:9052 M:283 W: Missing Blank Line separator, <400> field identifier
L:9058 M:283 W: Missing Blank Line separator, <400> field identifier
L:9064 M:283 W: Missing Blank Line separator, <400> field identifier
L:9070 M:283 W: Missing Blank Line separator, <400> field identifier
L:9076 M:283 W: Missing Blank Line separator, <400> field identifier
L:9082 M:283 W: Missing Blank Line separator, <400> field identifier
L:9088 M:283 W: Missing Blank Line separator, <400> field identifier
L:9094 M:283 W: Missing Blank Line separator, <400> field identifier
L:9100 M:283 W: Missing Blank Line separator, <400> field identifier
L:9106 M:283 W: Missing Blank Line separator, <400> field identifier
L:9112 M:283 W: Missing Blank Line separator, <400> field identifier
L:9118 M:283 W: Missing Blank Line separator, <400> field identifier
L:9124 M:283 W: Missing Blank Line separator, <400> field identifier
L:9130 M:283 W: Missing Blank Line separator, <400> field identifier
L:9136 M:283 W: Missing Blank Line separator, <400> field identifier
L:9142 M:283 W: Missing Blank Line separator, <400> field identifier
L:9148 M:283 W: Missing Blank Line separator, <400> field identifier
L:9154 M:283 W: Missing Blank Line separator, <400> field identifier
L:9160 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

L:9166 M:283 W: Missing Blank Line separator, <400> field identifier
L:9172 M:283 W: Missing Blank Line separator, <400> field identifier
L:9178 M:283 W: Missing Blank Line separator, <400> field identifier
L:9184 M:283 W: Missing Blank Line separator, <400> field identifier
L:9190 M:283 W: Missing Blank Line separator, <400> field identifier
L:9196 M:283 W: Missing Blank Line separator, <400> field identifier
L:9202 M:283 W: Missing Blank Line separator, <400> field identifier
L:9208 M:283 W: Missing Blank Line separator, <400> field identifier
L:9214 M:283 W: Missing Blank Line separator, <400> field identifier
L:9220 M:283 W: Missing Blank Line separator, <400> field identifier
L:9226 M:283 W: Missing Blank Line separator, <400> field identifier
L:9232 M:283 W: Missing Blank Line separator, <400> field identifier
L:9238 M:283 W: Missing Blank Line separator, <400> field identifier
L:9244 M:283 W: Missing Blank Line separator, <400> field identifier
L:9250 M:283 W: Missing Blank Line separator, <400> field identifier
L:9256 M:283 W: Missing Blank Line separator, <400> field identifier
L:9262 M:283 W: Missing Blank Line separator, <400> field identifier
L:9268 M:283 W: Missing Blank Line separator, <400> field identifier
L:9274 M:283 W: Missing Blank Line separator, <400> field identifier
L:9280 M:283 W: Missing Blank Line separator, <400> field identifier
L:9286 M:283 W: Missing Blank Line separator, <400> field identifier
L:9292 M:283 W: Missing Blank Line separator, <400> field identifier
L:9298 M:283 W: Missing Blank Line separator, <400> field identifier
L:9304 M:283 W: Missing Blank Line separator, <400> field identifier
L:9310 M:283 W: Missing Blank Line separator, <400> field identifier
L:9316 M:283 W: Missing Blank Line separator, <400> field identifier
L:9322 M:283 W: Missing Blank Line separator, <400> field identifier
L:9328 M:283 W: Missing Blank Line separator, <400> field identifier
L:9334 M:283 W: Missing Blank Line separator, <400> field identifier
L:9340 M:283 W: Missing Blank Line separator, <400> field identifier
L:9356 M:283 W: Missing Blank Line separator, <400> field identifier
L:9362 M:283 W: Missing Blank Line separator, <400> field identifier
L:9368 M:283 W: Missing Blank Line separator, <400> field identifier
L:9411 M:283 W: Missing Blank Line separator, <400> field identifier
L:9417 M:283 W: Missing Blank Line separator, <400> field identifier
L:9423 M:283 W: Missing Blank Line separator, <400> field identifier
L:9472 M:283 W: Missing Blank Line separator, <400> field identifier
L:9488 M:283 W: Missing Blank Line separator, <400> field identifier
L:9494 M:283 W: Missing Blank Line separator, <400> field identifier
L:9551 M:283 W: Missing Blank Line separator, <400> field identifier
L:9584 M:283 W: Missing Blank Line separator, <400> field identifier
L:9619 M:283 W: Missing Blank Line separator, <400> field identifier
L:9650 M:283 W: Missing Blank Line separator, <400> field identifier
L:9681 M:283 W: Missing Blank Line separator, <400> field identifier
L:9714 M:283 W: Missing Blank Line separator, <400> field identifier
L:9720 M:283 W: Missing Blank Line separator, <400> field identifier
L:9726 M:283 W: Missing Blank Line separator, <400> field identifier
L:9732 M:283 W: Missing Blank Line separator, <400> field identifier
L:9738 M:283 W: Missing Blank Line separator, <220> field identifier

VERIFICATION SUMMARY

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

L:9741 M:283 W: Missing Blank Line separator, <400> field identifier
L:9784 M:283 W: Missing Blank Line separator, <400> field identifier
L:9851 M:283 W: Missing Blank Line separator, <400> field identifier
L:9857 M:283 W: Missing Blank Line separator, <400> field identifier
L:9863 M:283 W: Missing Blank Line separator, <400> field identifier
L:9869 M:283 W: Missing Blank Line separator, <400> field identifier
L:9875 M:283 W: Missing Blank Line separator, <400> field identifier
L:9881 M:283 W: Missing Blank Line separator, <400> field identifier
L:9888 M:283 W: Missing Blank Line separator, <400> field identifier
L:9894 M:283 W: Missing Blank Line separator, <400> field identifier
L:9900 M:283 W: Missing Blank Line separator, <400> field identifier
L:9957 M:283 W: Missing Blank Line separator, <400> field identifier
L:9963 M:283 W: Missing Blank Line separator, <400> field identifier
L:9969 M:283 W: Missing Blank Line separator, <400> field identifier
L:9975 M:283 W: Missing Blank Line separator, <400> field identifier
L:9981 M:283 W: Missing Blank Line separator, <400> field identifier
L:9987 M:283 W: Missing Blank Line separator, <400> field identifier
L:9993 M:283 W: Missing Blank Line separator, <400> field identifier
L:10000 M:283 W: Missing Blank Line separator, <400> field identifier
L:10006 M:283 W: Missing Blank Line separator, <400> field identifier

**Raw Sequence Listing before editing
(for reference only)**



IFWP

RAW SEQUENCE LISTING

DATE: 02/23/2006

PATENT APPLICATION: US/10/568,471

TIME: 14:31:04

Input Set : A:\Sequence Listing of Gene Overexpressed in Cancer.txt

Output Set: N:\CRF4\02232006\J568471.raw

**Does Not Comply
Corrected Diskette Needed**

3 <110> APPLICANT: ABURATANI, Hiroyuki;
 4 HIPPO, Yoshitaka
 5 TANIGUCHI, Hirokazu
 6 CHEN, Yong xin
 7 ISHIKAWA, Shumpei
 8 FUKUMOTO, Shin-ichi
 9 SHIMAMURA, Takahiro
 10 KAMIMURA, Naoko
 11 GUO, Ying qiu
 12 YAMAMOTO, Shogo
 13 ITO, Yukio
 14 ITO, Hirotaka
 15 OHTOMO, Toshihiko
 W--> 16 <120> TITLE OF INVENTION: Genes Highly Expressed in Cancers
 W--> 17 <130> FILE REFERENCE: 392.1004
 W--> 18 <140> CURRENT APPLICATION NUMBER: PCT/JP2004/011650
 C--> 19 <141> CURRENT FILING DATE: 2006-02-08
 20 <150> PRIOR APPLICATION NUMBER: JP 2003-290704
 21 <151> PRIOR FILING DATE: 2003-08-08
 W--> 22 <160> NUMBER OF SEQ ID: 292
 23 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

9734 <210> SEQ ID NO: 273
 9735 <211> LENGTH: 2233
 9736 <212> TYPE: DNA
 9737 <213> ORGANISM: homo sapiens
 9738 <221> NAME/KEY: CDS
 9739 <222> LOCATION: (281)..(1768)
 E--> 9740 <400> SEQUENCE: 273

9741	cgattggagc gggccgcagc cagcgcaccc agaccctgcg ctgccctcgg acggccggggc	60
9742	gcggagcccc agctgcggag gccgacggca cccggccccg agcgccctcga cgccgagccg	120
9743	cgcgcgcctt ctccgccagg cccggcggggc gggagcgggg gcgagggagc aggagcggcc	180
9744	agtgcctccg acaccccccg cccggcaccc ccggcccgcc atcccccgcc gccgcgcgcg	240
9745	ccgcctcaag gccgcgcgct cccgcaggt ggacgcggcc atgggcgcag ggggtgcgcgt	300
9746	gctgctgctg ctgagcctgc tgcactgcgc cgggggcagc gagggcagga agacctggcg	360
9747	gcgcgggggt cagcagccgc ctctctcccc gcggaccgag gcggcgccgg cgcccgga	420
9748	gcccgtggag agcttccccg tggacttcac ggccgtggag ggtaacatgg acagcttcat	480
9749	ggcgcaagtc aagagcctgg cgcagctcc ctacctgc tccgcgcagc agctcaacga	540
9750	ggacctgcgc ctgcacctcc tactcaacac ctcggtgacc tgcaacgacg gcagccccgc	600
9751	cggctactac ctgaaggagt ccaggggcag ccggcggtgg ctctcttcc tgggaaggcg	660

RAW SEQUENCE LISTING

DATE: 02/23/2006

PATENT APPLICATION: US/10/568,471

TIME: 14:31:05

Input Set : A:\Sequence Listing of Gene Overexpressed in Cancer.txt

Output Set: N:\CRF4\02232006\J568471.raw

9752	ctggtactgc	ttcaaccgcg	agaactgcga	ctccagatac	gacaccatgc	ggcgccctcat	720
9753	gagctcccgg	gactggccgc	gcactcgcac	agggcacagg	atcctgtcct	cacagccgga	780
9754	ggagaacccc	tactggtgga	acgcaaaccat	ggtcttcac	ccctactgct	ccagtgatgt	840
9755	ttggagcggg	gcttcatcca	agtctgagaa	gaacgagtac	gccttcatgg	gcgccctcat	900
9756	catccaggag	gtggtgcggg	agcttctggg	cagagggctg	agcggggcca	aggtgctgct	960
9757	gctggccggg	agcagcgcg	ggggcaccgg	ggtgctcctg	aatgtggacc	gtgtggctga	1020
9758	gcagctggag	aagctgggct	accagccat	ccaggtgcga	ggcctggctg	actccggctg	1080
9759	gttcctggac	aacaagcagt	atcgccacac	agactgcgtc	gacacgatca	cgtgcgcgcc	1140
9760	cacggaggcc	atccgccgtg	gcatcaggta	ctggaacggg	gtggtcccgg	agcgtgccc	1200
9761	acgccagttc	caggagggcg	aggagtggaa	ctgcttcttt	ggctacaagg	tctaccgcac	1260
9762	cctgcgctgc	cctgtgttcg	tgggtgcagt	gctgtttgac	gaggcacagc	tgacggtgga	1320
9763	caacgtgcac	ctgacggggc	agccgggtga	ggagggcctg	cggctgtaca	tccagaacct	1380
9764	cggccgcgag	ctgcgccaca	caactcaagg	cgtgccggcc	agctttgccc	ccgcctgcct	1440
9765	ctcccatgag	atcatcatcc	ggagccactg	gacggatgtc	caggtgaagg	ggacgtcgct	1500
9766	gccccgagca	ctgcactgct	gggacaggag	cctccatgac	agccacaagg	ccagcaagac	1560
9767	ccccctcaag	ggctgccccg	tccacctggt	ggacagctgc	ccctggcccc	actgcaaccc	1620
9768	ctcatgcccc	accgtccgag	accagttcac	ggggcaagag	atgaacgtgg	cccagttcct	1680
9769	catgcacatg	ggcttcgaca	tgcagacggt	ggcccagccg	cagggactgg	agcccagtga	1740
9770	gctgctgggg	atgctgagca	acggaagcta	ggcagactgt	ctggaggagg	agccggcact	1800
9771	gaggggcccc	gacacccgct	gccccagtgc	cacctacccc	cccaccagca	ggccctcccg	1860
9772	tctcttcggg	acagggcccc	agccgtcccc	cctgtctggg	tctgcccact	gccctcctgc	1920
9773	cccggttttc	cctgcccctc	tcccacagcc	cagccagaga	caagggacct	gctgtcatcc	1980
9774	ccatctgtgg	cctggggggtc	cttcctgaca	acgagggggg	agccagaaga	gaagcactgg	2040
9775	attcctcagt	ccaccagctc	agacagcacc	caccggcccc	acccatcaag	cccttttata	2100
9776	ttattttata	aagtgaacttt	tttattactt	taatttttta	aaaaaaggaa	aataagaata	2160
9777	tatgatgaat	gatattgttt	tgtaactttt	taaaaatgat	tttaaagaga	caaaaaagaa	2220
9778	aaaaaaaaaa	aaa					2233

VERIFICATION SUMMARY

DATE: 02/23/2006

PATENT APPLICATION: US/10/568,471

TIME: 14:31:06

Input Set : A:\Sequence Listing of Gene Overexpressed in Cancer.txt

Output Set: N:\CRF4\02232006\J568471.raw

L:16 M:283 W: Missing Blank Line separator, <120> field identifier
L:17 M:283 W: Missing Blank Line separator, <130> field identifier
L:18 M:283 W: Missing Blank Line separator, <140> field identifier
L:18 M:270 C: Current Application Number differs, Replaced Current Application Number
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:22 M:283 W: Missing Blank Line separator, <160> field identifier
L:24 M:283 W: Missing Blank Line separator, <210> field identifier
L:28 M:283 W: Missing Blank Line separator, <400> field identifier
L:356 M:283 W: Missing Blank Line separator, <400> field identifier
L:394 M:283 W: Missing Blank Line separator, <400> field identifier
L:415 M:283 W: Missing Blank Line separator, <400> field identifier
L:428 M:283 W: Missing Blank Line separator, <220> field identifier
L:432 M:283 W: Missing Blank Line separator, <220> field identifier
L:436 M:283 W: Missing Blank Line separator, <400> field identifier
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:420
M:341 Repeated in SeqNo=5
L:453 M:283 W: Missing Blank Line separator, <400> field identifier
L:465 M:283 W: Missing Blank Line separator, <400> field identifier
L:498 M:283 W: Missing Blank Line separator, <400> field identifier
L:563 M:283 W: Missing Blank Line separator, <400> field identifier
L:612 M:283 W: Missing Blank Line separator, <400> field identifier
L:627 M:283 W: Missing Blank Line separator, <400> field identifier
L:661 M:283 W: Missing Blank Line separator, <400> field identifier
L:689 M:283 W: Missing Blank Line separator, <400> field identifier
L:704 M:283 W: Missing Blank Line separator, <400> field identifier
L:740 M:283 W: Missing Blank Line separator, <400> field identifier
L:802 M:283 W: Missing Blank Line separator, <220> field identifier
L:806 M:283 W: Missing Blank Line separator, <220> field identifier
L:810 M:283 W: Missing Blank Line separator, <220> field identifier
L:814 M:283 W: Missing Blank Line separator, <220> field identifier
L:818 M:283 W: Missing Blank Line separator, <220> field identifier
L:822 M:283 W: Missing Blank Line separator, <220> field identifier
L:826 M:283 W: Missing Blank Line separator, <220> field identifier
L:830 M:283 W: Missing Blank Line separator, <400> field identifier
L:831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:843 M:283 W: Missing Blank Line separator, <400> field identifier
L:1022 M:283 W: Missing Blank Line separator, <400> field identifier
L:1060 M:283 W: Missing Blank Line separator, <400> field identifier
L:1093 M:283 W: Missing Blank Line separator, <400> field identifier
L:1144 M:283 W: Missing Blank Line separator, <400> field identifier
L:1201 M:283 W: Missing Blank Line separator, <400> field identifier
L:1235 M:283 W: Missing Blank Line separator, <400> field identifier
L:1250 M:283 W: Missing Blank Line separator, <400> field identifier
L:1303 M:283 W: Missing Blank Line separator, <400> field identifier
L:1372 M:283 W: Missing Blank Line separator, <400> field identifier
L:1456 M:283 W: Missing Blank Line separator, <400> field identifier
L:1492 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

DATE: 02/23/2006

PATENT APPLICATION: US/10/568,471

TIME: 14:31:06

Input Set : A:\Sequence Listing of Gene Overexpressed in Cancer.txt

Output Set: N:\CRF4\02232006\J568471.raw

L:1540 M:283 W: Missing Blank Line separator, <400> field identifier
L:1591 M:283 W: Missing Blank Line separator, <400> field identifier
L:1613 M:283 W: Missing Blank Line separator, <400> field identifier
L:1697 M:283 W: Missing Blank Line separator, <400> field identifier
L:1774 M:283 W: Missing Blank Line separator, <400> field identifier
L:1823 M:283 W: Missing Blank Line separator, <400> field identifier
L:1842 M:283 W: Missing Blank Line separator, <400> field identifier
L:1882 M:283 W: Missing Blank Line separator, <400> field identifier
L:9740 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:273